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DATE: Tuesday, July 25, 2006 [Printable Copy](#) [Create Case](#)

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<u>L30</u>	'6026474'.pn.	1	<u>L30</u>
<u>L29</u>	'6108713'.pn.	1	<u>L29</u>
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L29: Entry 1 of 1

File: USPT

Aug 22, 2000

US-PAT-NO: [6108713](#)

DOCUMENT-IDENTIFIER: US 6108713 A

TITLE: Media access control architectures and network management systems

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

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APPL-NO: 08/845562 [\[PALM\]](#)

DATE FILED: April 24, 1997

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Patent Application having Ser. No. 60/037,588, filed on Feb. 11, 1997, entitled "Methods and Apparatuses for Performing Media Access Control And Network Management." This application is hereby incorporated by reference.

INT-CL-ISSUED: [07] [G06 F 15/16](#)

US-CL-ISSUED: 709/250; 370/463

US-CL-CURRENT: [709/250](#); [370/463](#)

FIELD-OF-CLASSIFICATION-SEARCH: 709/234, 709/250, 370/462, 370/463, 370/475, 395/507

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<input type="checkbox"/> <u>5058114</u>	October 1991	Kuboki et al.	371/19
<input type="checkbox"/> <u>5175732</u>	December 1992	Hendel et al.	370/463
<input type="checkbox"/> <u>5225975</u>	July 1993	Gates et al.	364/147
<input type="checkbox"/> <u>5245606</u>	September 1993	DeSouza	370/85.13
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<input type="checkbox"/> <u>5311114</u>	May 1994	Sambamurthy et al.	370/31
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<input type="checkbox"/> <u>5365513</u>	November 1994	Copley et al.	370/17
<input type="checkbox"/> <u>5379289</u>	January 1995	DeSouza et al.	370/85.13
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<input type="checkbox"/> <u>5434976</u>	July 1995	Tan et al.	709/234
<input type="checkbox"/> <u>5436902</u>	July 1995	McNamara et al.	370/85.3
<input type="checkbox"/> <u>5446914</u>	August 1995	Paul et al.	395/800
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<input type="checkbox"/> <u>5491531</u>	February 1996	Adams et al.	375/354
<input type="checkbox"/> <u>5504738</u>	April 1996	Sambamurthy et al.	370/31
<input type="checkbox"/> <u>5594702</u>	January 1997	Wakeman et al.	395/507 X
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<input type="checkbox"/> <u>5822618</u>	October 1998	Ecclesine	395/877

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Unknown, "Local Area Networks Databook," National Semiconductor Corp., Santa Clara, CA, 1993 Edition, pp. 1-3, 1-82, 1-149, 1-266, 1-410, 1-506, 1-600, 3-3, 3-74, 3-125.

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Patrick Van Eijk, "Gigabit Ethernet: Technology, Systems, and Network Applications", pp. 85-90, Apr. 1997, Electric Design, vol. 45, No. 7.

ART-UNIT: 278

PRIMARY-EXAMINER: Maung; Zarni

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ATTY-AGENT-FIRM: Beyer Weaver & Thomas, LLP

ABSTRACT:

Disclosed is a media access controller for transferring data along a computer network. The media access controller includes a transmit media access controller that is configured to process out-going packet data received from an upper layer for transmission to a physical layer. A receive media access controller that is configured to process in-coming packet data received from the physical layer for transmission to the upper layer. A transmit multi-packet queue FIFO for receiving the out-going packet data from the upper layer before being passed to the transmit media access controller. A receive multi-packet queue FIFO for receiving the in-coming packet data that is received by the receive media access controller. The media access controller further including a media access controller manager interfacing with the transmit and receive media access controllers. The media access controller manager being responsible for managing the flow of packet data through the transmit and receive multi-packet queue FIFOs.

26 Claims, 33 Drawing figures

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